

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA 03/01415

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21H23/76 //D21H21:10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 070 236 A (CARRARD JEAN-PIERRE ET AL) 24 January 1978 (1978-01-24) cited in the application column 1, line 1 -column 2, line 7; claims 1,9; examples 2,4	1,6
A	---	2-5,7-10
X	US 5 472 570 A (ECHT ELLIOTT) 5 December 1995 (1995-12-05) cited in the application column 1, line 66 -column 2, line 3; claims 1,11-14,38,39	1,6
X	US 5 755 930 A (CAULEY THOMAS ADRIAN ET AL) 26 May 1998 (1998-05-26) the whole document ---	1-12
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

4 December 2003

Date of mailing of the international search report

11/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Nestby, K

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA 03/01415

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 516 405 A (DE WITT JAMES A) 14 May 1996 (1996-05-14) the whole document ----	1-12
A	US 5 480 934 A (MESSNER BERNFRIED ET AL) 2 January 1996 (1996-01-02) cited in the application -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/01415

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4070236	A	24-01-1978	CH 586321 A5	31-03-1977
			CH 587962 A5	31-05-1977
			DE 2549089 A1	26-05-1976
			FI 753114 A	16-05-1976
			GB 1525110 A	20-09-1978
			JP 51070301 A	17-06-1976
			SE 7512462 A	17-05-1976
US 5472570	A	05-12-1995	CA 2119842 A1	26-09-1994
			EP 0621369 A1	26-10-1994
			FI 941418 A	26-09-1994
US 5755930	A	26-05-1998	US 5538596 A	23-07-1996
			AT 222974 T	15-09-2002
			AU 716756 B2	09-03-2000
			AU 1799797 A	02-09-1997
			BR 9706816 A	23-03-1999
			CA 2180372 A1	14-08-1997
			CN 1208447 A , B	17-02-1999
			DE 69714968 D1	02-10-2002
			DE 69714968 T2	24-04-2003
			DK 880620 T3	16-12-2002
			EP 0880620 A1	02-12-1998
			ES 2180927 T3	16-02-2003
			WO 9730222 A1	21-08-1997
			JP 2000504794 T	18-04-2000
			NO 982266 A	12-08-1998
			NZ 330457 A	28-02-2000
			PT 880620 T	31-01-2003
			ZA 9701225 A	16-02-1998
			AT 174981 T	15-01-1999
			AU 701663 B2	04-02-1999
			AU 1583195 A	21-08-1995
			BR 9505772 A	27-02-1996
			CA 2159593 A1	10-08-1995
			DE 69506799 D1	04-02-1999
			DE 69506799 T2	20-05-1999
			DK 693146 T3	23-08-1999
			EP 0693146 A1	24-01-1996
			ES 2125597 T3	01-03-1999
			FI 954677 A	02-10-1995
			WO 9521296 A1	10-08-1995
			GR 3029339 T3	28-05-1999
			JP 8508796 T	17-09-1996
			NO 953936 A	03-10-1995
			NZ 279258 A	27-04-1998
			PL 310979 A1	22-01-1996
			ZA 9500924 A	06-02-1996
US 5516405	A	14-05-1996	AU 7606794 A	10-04-1995
			CA 2144972 A1	21-03-1995
			WO 9508670 A1	30-03-1995
US 5480934	A	02-01-1996	DE 4316200 A1	17-11-1994
			AT 171965 T	15-10-1998
			CA 2123460 A1	15-11-1994
			DE 59407030 D1	12-11-1998
			DK 624617 T3	21-06-1999

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.
PCT/CA 03/01415

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5480934	A	EP 0624617 A1	17-11-1994
		ES 2123073 T3	01-01-1999
		JP 7070214 A	14-03-1995
		RU 2157382 C2	10-10-2000
<hr/>			